Patent Abstracts of Japan

PUBLICATION NUMBER : 05224694
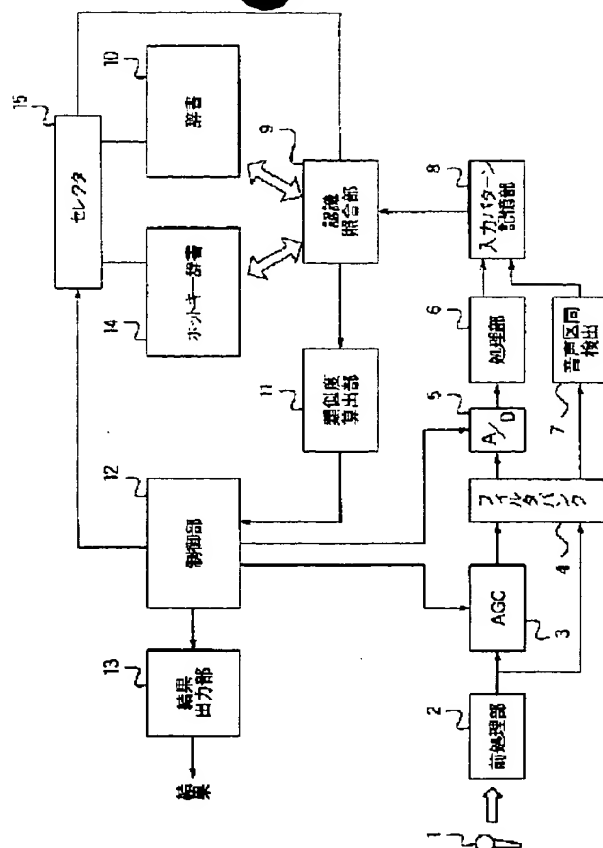PUBLICATION DATE : 03-09-93

APPLICATION DATE : 14-02-92
APPLICATION NUMBER : 04027906

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INT.CL. : G10L 3/02

TITLE : SPEECH RECOGNITION DEVICE

ABSTRACT : PURPOSE: To obtain the largest recognition rate regardless of whether the speech level of a speaker is high or low by judging the speech level of an inputted hot key and setting the gain of the whole system corresponding to the judged level.

CONSTITUTION: An speech signal which is inputted is amplified by a microphone amplifier, divided into respective frequency bands by a filter bank 4, and digitized, and then, a process part 6 extracts features. The feature-extracted speech pattern is divided into speech sections, which are stored in an input pattern storage part 8. When the stored speech signal is inputted to a recognition and collation part 9, it is judged that a hot key process is completed; when the hot key is inputted, a selector 15 selects one of hot key dictionaries 14 provided by gains and the recognition and collation part 9 performs collation by using this dictionary to detect the dictionary which gives maximum similarity. The speech level of the speaker is estimated from the gain of this dictionary and the speech level of the whole system is so set as to obtain the maximum recognition rate.